CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/SG/W.No.13/CSR-06/685d/CEMENT/2018-19 Date: 02.07.2018

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. S. Girish,** No.342, Maruthi Nilaya, 22nd Cross, Pipeline Road, Near Sri. Shanimahathma Temple, T. Dasarahalli, Bangalore – 57.
*** Name of Work**	:	Maintenance of footpath & construction of SSM wall and kerb in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	EE/DD/WO/242/2017-18 Dated: 27.02.2018
*** Sample ID**	:	Cement
Sample Received on	:	30.06.2018
Period of Testing	:	30.06.2018 to 02.07.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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****

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T-2377

Job No.: CTCE/BBMP/SG/W.No.13/CSR-06/685d/SAND-Gradation/2018-19

02.07.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S. Girish,** No.342, Maruthi Nilaya, 22nd Cross, Pipeline Road, Near Sri. Shanimahathma Temple, T. Dasarahalli, Bangalore – 57.
* Name of Work	:	Maintenance of footpath & construction of SSM wall and kerb in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/242/2017-18 Dated: 27.02.2018
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	30.06.2018
Date of Testing	:	02.07.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.70	90-100	90-100	90-100	95-100
2.36	82.70	60-95	75-100	85-100	95-100
1.18	61.40	30-70	55-90	75-100	90-100
600 Micron	37.90	15-34	35-59	60-79	80-100
300 Micron	15.60	5-20	8-30	12-40	15-50
150 Micron	6.10	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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02.07.2018

Job No.: CTCE/BBMP/SG/W.No.13/CSR-06/685d/AGG/GR/2018-19

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S. Girish,** No.342, Maruthi Nilaya, 22nd Cross, Pipeline Road, Near Sri. Shanimahathma Temple, T. Dasarahalli, Bangalore – 57.
* Name of Work	:	Maintenance of footpath & construction of SSM wall and kerb in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/242/2017-18 Dated: 27.02.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	30.06.2018
Date of Testing	:	02.07.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.96	95-100	85-100
20	38.66	30-70	0-20
10	14.02	10-35	0-5
4.75	2.72	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SG/W.No.13//Fencing/2018-19 16.07.2018

TEST REPORT ON CHAIN LINK FENCING WIRE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S. Girish,** No.342, Maruthi Nilaya, 22nd Cross, Pipeline Road, Near Sri. Shanimahathma Temple, T. Dasarahalli, Bangalore – 57.
* Name of work	:	Maintenance of footpath & construction of SSM wall and kerb in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/242/2017-18 Dated: 27.02.2018
* Samples ID	:	Chain link fencing- 8th gauge
Date of Testing	:	16.07.2018

Sl.No	Description	Result
1	Diameter	4.08 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.185 Kg

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SG/W.No.13/angle/2018-19

16.07.2018

TEST REPORT ON STRUCTURAL STEEL

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. S. Girish,** No.342, Maruthi Nilaya, 22nd Cross, Pipeline Road, Near Sri. Shanimahathma Temple, T. Dasarahalli, Bangalore – 57.
*** Name of work**	:	Maintenance of footpath & construction of SSM wall and kerb in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
*** Reference**	:	EE/DD/WO/242/2017-18 Dated: 27.02.2018
*** Samples ID**	:	ISA 65X65X6 mm
Date of Testing	:	16.07.2018

Sl.No	Description	Result
1	Thickness	6.04 mm
2	Width	65.0 mm
3	Weight / Meter	5.88 Kg

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Job No.: CTCE/BBMP/SG/W.No.13/MS pipe/2018-19

16.07.2018

TEST REPORT ON M.S PIPE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S. Girish,** No.342, Maruthi Nilaya, 22nd Cross, Pipeline Road, Near Sri. Shanimahathma Temple, T. Dasarahalli, Bangalore – 57.
* Name of work	:	Maintenance of footpath & construction of SSM wall and kerb in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/242/2017-18 Dated: 27.02.2018
* Samples ID	:	MS Pipe 38mm Dia
Date of Testing	:	16.07.2018

Sl.No	Description	Result
1	Thickness	2.12 mm
2	Inner Diameter	38.10 mm
3	Outer Diameter	42.34 mm
4	Weight / Meter	1.895 kg

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17.08.2018

Job No.: CTCE/BBMP/SG/W.No.13/CSR-06/685d/Cube/2018-19

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S. Girish,** No.342, Maruthi Nilaya, 22nd Cross, Pipeline Road, Near Sri. Shanimahathma Temple, T. Dasarahalli, Bangalore – 57.
* Name of the work	:	Maintenance of footpath & construction of SSM wall and kerb in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/242/2017-18 Dated: 27.02.2018
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.08.2018

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.07.2018	17.08.2018	8.123	495.6	22.03
2	20.07.2018	17.08.2018	8.326	523.4	23.26
3	20.07.2018	17.08.2018	8.250	535.7	23.81

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